

Title (en)
Filtration monitoring and control system

Title (de)
Filtrationskontroll- und Regulationssystem

Title (fr)
Dispositif de controle et de régulation de filtration

Publication
EP 1300186 B1 20070221 (EN)

Application
EP 02080409 A 19960315

Priority
• AU PN175095 A 19950315
• AU PN357195 A 19950615
• AU PN639795 A 19951106
• AU PN731695 A 19951222
• EP 96905596 A 19960315

Abstract (en)
[origin: WO9628236A1] A method and apparatus for determining the fouling effect of a feedstream on a filter having known characteristics disclosed. The method comprises passing the feedstream through a filter (5) having known characteristics; determining the change in resistance to flow of the feedstream across the filter, either continuously or over a number of time intervals and from this data, calculating a feed fouling index (FFI) representative of the fouling characteristics of the feedstream with respect to the filter. A method and apparatus for monitoring the operation of a filtration system is also disclosed the method comprising sampling system parameter values at selected locations within the filtration system at a predetermined sampling rate; generating a parameter profile characteristic from the sampled parameter values at predetermined intervals of time; and analysing the parameter profile characteristic to determine correct operation of the filtration system. A further method and apparatus of monitoring and controlling a filtering system based on backwash efficiency is also disclosed, the method comprising determining resistance values of filtering elements used in the filtering system at predetermined times during the backwash cycle of the system by monitoring a number of operating parameters of the system; calculating a backwash efficiency value representative of the efficiency of the backwash cycle of the filtering system using the resistance values determined; and controlling the operation of the filtering system in dependence on the value of the backwash efficiency calculated.

IPC 8 full level
B01D 61/12 (2006.01); **B01D 35/143** (2006.01); **B01D 61/04** (2006.01); **B01D 61/14** (2006.01); **B01D 61/16** (2006.01); **B01D 61/22** (2006.01); **B01D 61/32** (2006.01); **B01D 65/02** (2006.01); **B01D 65/08** (2006.01); **B01D 65/10** (2006.01); **B01D 71/12** (2006.01)

CPC (source: EP US)
B01D 61/025 (2013.01 - EP); **B01D 61/04** (2013.01 - EP); **B01D 61/12** (2013.01 - EP); **B01D 61/145** (2013.01 - EP); **B01D 61/147** (2013.01 - EP); **B01D 61/16** (2013.01 - EP); **B01D 61/22** (2013.01 - EP); **B01D 65/00** (2013.01 - EP); **B01D 65/02** (2013.01 - EP); **B01D 65/102** (2013.01 - EP); **B01D 65/109** (2022.08 - EP US); **B01D 2311/04** (2013.01 - EP); **B01D 2321/04** (2013.01 - EP); **B01D 2321/28** (2013.01 - EP); **C02F 1/444** (2013.01 - EP); **C02F 2303/16** (2013.01 - EP)

C-Set (source: EP)
B01D 2311/04 + B01D 2311/16

Cited by
EP2394731A1; KR20200043774A; WO2013191740A1; WO2008132186A1; US9604166B2; US10391432B2; US9675938B2; US9962865B2; US11992810B2; US9764288B2; US8571296B2; US9925499B2; US8357299B2; US9783434B2; WO2011049790A1; US8348499B2; US10507431B2; WO2020080880A1; US9176041B2; US9914097B2; US10441920B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9628236 A1 19960919; AT E243551 T1 20030715; AT E354428 T1 20070315; AT E444800 T1 20091015; AU 4931996 A 19961002; AU 693005 B2 19980618; CA 2214997 A1 19960919; CA 2214997 C 20061003; CA 2552610 A1 19960919; CA 2552610 C 20101012; CN 1067907 C 20010704; CN 1178480 A 19980408; DE 69628824 D1 20030731; DE 69628824 T2 20040415; DE 69636927 D1 20070405; DE 69636927 T2 20071206; DE 69638053 D1 20091119; EP 0814887 A1 19980107; EP 0814887 A4 19990317; EP 0814887 B1 20030625; EP 1300186 A1 20030409; EP 1300186 B1 20070221; EP 1655066 A1 20060510; EP 1655066 B1 20091007; ES 2211945 T3 20040716; ES 2282370 T3 20071016; ES 2331809 T3 20100115; JP 3902227 B2 20070404; JP H11503065 A 19990323; KR 100429744 B1 20040616; KR 19980703054 A 19980905; MY 116501 A 20040228; NZ 303096 A 19990128; PH 11996052654 B1 20060307; TW 317506 B 19971011

DOCDB simple family (application)
AU 9600144 W 19960315; AT 02080409 T 19960315; AT 06100687 T 19960315; AT 96905596 T 19960315; AU 4931996 A 19960315; CA 2214997 A 19960315; CA 2552610 A 19960315; CN 96192556 A 19960315; DE 69628824 T 19960315; DE 69636927 T 19960315; DE 69638053 T 19960315; EP 02080409 A 19960315; EP 06100687 A 19960315; EP 96905596 A 19960315; ES 02080409 T 19960315; ES 06100687 T 19960315; ES 96905596 T 19960315; JP 52711996 A 19960315; KR 19970706463 A 19970913; MY PI9600975 A 19960315; NZ 30309696 A 19960315; PH 52654 A 19960315; TW 85103126 A 19960315